

CLAIMS

1. Valve body with

- a needle (22), which closes or opens a nozzle (213) depending on its position and comprises a guided zone (221),
- a first part (21), which is arranged in a fixed position relative to the nozzle (213) and comprises a guided zone (215), and
- a second part (24), which comprises a first guide zone (242) that guides the guided zone (221) of the needle (22), and which comprises a second guide zone (243), that guides the guided zone (215) of the first part (21), with the second guide zone (243) having a greater diameter than the first guide zone (242).

2. Valve body with

- a needle which closes or opens a nozzle (213) depending on its position and comprises a guided zone (221),
- a first part (21), which is arranged in fixed position relative to the nozzle (213) and comprises a guide zone (216),
- a second part (24), which comprises a first guide zone (242) that guides the guided zone (221) of the needle (22), and which comprises a guided zone (245), that is guided by the guide zone (216) of the first part (21), with the guide zone (216) of the first part (22) having a greater diameter than the first guide zone (242).

3. Valve body in accordance with one of the preceding claims, characterized in, that the second guide zone (243) or respectively the guide zone (245) of the first part (21) has a smaller diameter than a free diameter of a return spring (25), that is arranged axially outwards from the second guide zone (243) or respectively the guide zone (245) of the first part (21).

4. Valve body in accordance with one of the preceding claims, characterized in, that the second part (24) comprises a spring rest (244), where a return spring (25) rests.

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5. Valve body in accordance with one of the preceding claims, characterized in, that the guided zone (221) of the needle (21) and the first guide zone (242) of the second part (24) are located before a fluid inlet (214) towards the
10 needle (22) in the direction of the nozzle (213).

6. Valve body in accordance with one of the preceding claims, characterized in, that the first guide zone (242) is axially spaced to the second guide zone (243) or respectively to the guided zone (245) of the second part (24).
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7. Valve body in accordance with claim 6, characterized in, that the first guide zone (242) is axially further spaced apart from the nozzle (213)
20 than the second guide zone (243) or respectively than the guided zone (245) of the second part (24).

8. Valve body in accordance with one of the preceding claims, characterized in, that the first part (21)
25 forms the nozzle (213) and takes in the needle (22).

9. Fluid injector with a housing (1), an actuator unit (3) and a valve body (2) according to one of the preceding claims.